

# THE Y-12 BULLETIN

A NEWSPAPER BY AND FOR Y-12 EMPLOYEES OF CARBIDE AND CARBON CHEMICALS DIVISION

Union Carbide And Carbon Corporation

Volume 4, No. 4

6-1092

OAK RIDGE, TENNESSEE

Wednesday, January 25, 1950

## Dept. 2077 Makes It Five For Six With All Present

Electrical Maintenance Department employees in Dept. 2077 rang the bell for the second consecutive week with a perfect attendance record for the week ending January 15, making it five weeks out of the past six that no absenteeism has been listed in the department. **Had Five Straight Weeks**

This department previously had set up a mark of five straight weeks with an "all present" record. This mark extended through the week of November 20 but on the following week the department had an absentee mark of .094. Then for the week ending December 4 the department dropped out of the top bracket for the first time in many weeks with 2.1 per cent of its personnel absent. However, the following week the electricians came back to the first place position again with no absenteeism and maintained the figure for the succeeding two weeks. For the week ending January 1 the department had only .29 per cent of its membership absent and since then no absences have been noted.

The Chemical Department took second place in the Major League for the week ending January 15 with the low absentee mark of .6 per cent. Close behind in third place with an absentee record of only .7 per cent was the Field Maintenance Department.

### Four Other Departments Perfect

Only four departments in the Minor League reported perfect attendance records for the week ending January 15 as against seven the preceding week. Three of these were repeaters from the previous week, they being Employee Relations, Receiving and Shipping and Property. These three were joined by Cafeteria and Canteens to create a four-way tie for first place.

Second place in the Minor League was held by Transportation, one of the first place departments the preceding week, while third place was taken by Planning and Estimating, in ninth place the preceding week. Transportation had an absentee mark of .7 per cent and Planning and Estimating reported 1.1 per cent of its employees absent.

(Continued on Page 4)

## Delft University Professor To Lead Seminar Session

"Plastic Deformation of Metal Crystals—Phenomenon of Slip" will be the title of the subject to be discussed at the weekly meeting of the Oak Ridge Physics Seminar at 4 o'clock Friday afternoon January 27. The meeting will be held in the East Lounge of the Ridge Recreation Hall and all Y-12 scientists are invited to attend the session.

The principal speaker and leader of the discussion will be Dr. W. G. Burges. He is dean of the School of Chemistry, University of Delft, The Netherlands. At present he is a visiting professor at Purdue University, Lafayette, Ind.

### WHAT, NO NEWS?

Pravda, the official Communist newspaper in Moscow, carried a 56-line story on the reported Russian atomic explosion on Page 2 alongside agricultural and industrial news. The entire front page was devoted to other subjects.



6-1093

Y-12 Photos By Vince Moore

**THOSE TWO LITTLE MIDGET AUTOMOBILES IN FRONT** in the top picture are far more important to their drivers than the glittering new machines in the background that belong to their dads. The proud youngsters are Bobby Schaefer, 6, left, and Dale Allstun, 11, right, with the little girl being Judy Schaefer, 7, Bobby's sister. In the rear are Robert Schaefer and Russell Allstun, both Y-12ers, fathers of the boys who built the cars for the lads. In the lower picture Bobby is preparing to take Judy for a ride while Dale's passenger is Bill Lorton. Other youngsters gazing from the background, probably waiting to hitch a hop, are, from left, Troy Fair, Jo Walker, Kay Walker and James Fair.

## Y-12 Fathers Build Midget Autos Operated By Proud Youngsters

No adult owner of a bright and shiny new 1950 automobile with all the gadgets could be any more proud of their vehicle than a couple of youngsters of Y-12 employees are of real midget automobiles made for them by their mechanically-minded fathers. The little machines run on their own power, are equipped with good brakes, lights and other safety features and are the apple of the eyes of Dale Allstun, 11, and Bobby Schaefer, 6.

They are the sons of Russell Allstun and Robert Schaeffer, of the Y-12 Maintenance Shops Department. Both fathers built the little vehicles themselves from stem to stern with parts bought from various places and they are just about as proud of their handiwork as the youngsters are of driving the cars.

The Allstun vehicle is propelled  
(Continued On Page 4)

## AEC Leaders Make Visit To Y-12 Plant

Carroll E. Wilson, general manager of the Atomic Energy Commission, and Walter J. Williams, director of the division of production of the AEC, with Oak Ridge AEC personnel, paid a brief visit to Y-12 last Friday. The party had lunch in the Y-12 cafeteria during their visit.

## Ridge Mechanical Engineers Will Hold Meeting Thursday

Y-12ers who are members of the Oak Ridge Sub-Section of the East Tennessee Section of the American Society of Mechanical Engineers are urged to attend a meeting of the group at 7:30 o'clock Thursday night, January 26, in the West Lounge of the Ridge Recreation Hall.

At this session J. A. Good, of the Diamond Power Specialty Co., Detroit, will address the engineers on the "Utiliscope-Television in Industry." He will demonstrate some equipment in illustrating his talk.

### HIROSHIMA SITE SUGGESTED

The Christian Science Monitor has suggested Hiroshima as the meeting place if the time ever comes when President Truman and Premier Stalin hold a direct meeting to discuss the atomic bomb.

## Analytical Chemists Hear Talk By Susano

Analytical chemists of Oak Ridge and surrounding territory were scheduled to have held a meeting Monday night of this week at the Oak Ridge Institute of Nuclear Studies to organize a group within the East Tennessee Section of the American Chemical Society. Dr. C. J. Barton, of Y-12, who helped create interest in forming the group, was to have presided and a talk on "The Professional Status of the Analytical Chemist" by C.D. Susano, also of Y-12, was on the program.

In an abstract of Susano's address prepared before the meeting an outline was given on how doctors and lawyers had achieved professional standing and the speaker indicated the need for similar action by analytical chemists. He stressed the fact that doctors and lawyers have professional societies devoted to their welfare and continued professional growth, and that this is possible because of the homogeneous nature of their professions.

### Must Organize For Improvement

It was pointed out that the American Chemical Society is equally concerned with the welfare and professional growth of chemists, but, because of the heterogeneous nature of the work of chemists, it is not possible that professional status can be achieved for one group within the ACS organization solely through the efforts of that organization. Therefore, the speaker pointed out, the analytical chemists must organize to improve their professional status as a group.

Having emphasized the lack of professional status of the analytical chemist Susano expressed his idea of the way in which the analytical chemist might achieve his goal. He stressed the need for greater participation in civic and governmental affairs, greater interest in the training of the young prospective chemist and giving publicity to the achievements of the analytical chemists. He further pointed out that the analytical chemist of today is responsible for determining the qualification necessary in terms of training and education for the analytical chemist of the future. He also suggested that licensing of analytical chemists would insure compliance with the standards maintained by the analytical chemist of today, but did not believe that licensing would be the best solution at the present.

## Income Tax Aid Still Available For Y-12 Folks

An increasing number of Y-12ers are taking advantage of the income tax advice and assistance service offered by Paschal Hamrick, of the Employment Office, in making out income tax returns on 1949 income. The advice and assistance will be provided by Hamrick right up to the March 15 deadline for filing returns and he can be reached at his office in Room 10, North Portal.

The question most frequently raised by Y-12ers in facing their returns for 1949 appear to be how to list the Company contribution to the Carbide Savings Plan checks distributed last July.

If the Company contribution to the Savings Plan payment was more than \$100 it must be reported by the recipient. In such cases the taxpayer must file his return on the 1040 Long-Form with the Company contribution listed on Page Two, Schedule A, Item Four under income from annuities or pensions. The amount also must be listed on Page One under Item Five, covering additional income of more than \$100 over wages. The amount of the Company contribution is given on the stub of the Savings Plan checks.

From information received from the office of the Deputy Collector of Internal Revenue at Knoxville, persons participating in the Savings Plan and having more than \$100 in benefits will not be liable for any penalty because their tax return on the item will be 80 per cent correct when the return is filed before March 15. This should relieve any concern by Y-12ers who feared that they might have been required to file an income tax return by January 19, as required in certain cases.

It also is pointed out that any person with any income of any kind more than \$100 over wages must report that income on the 1040 Long-Form, describing the income as prescribed on the form.

### Tax Pamphlet Is Available

Hamrick has available for distribution a pamphlet on "How To Prepare Your United States Income Tax Return" issued by the government that can be obtained on request by any employee desiring to make out his own return. It describes the proper forms to use, what exemptions are allowed taxpayers and gives other important information to the taxpayer.

All employees are reminded that in filing income tax returns that the W-2 form listing the wages paid by the Company and deductions made for income tax must accompany whichever tax return form is used. All Y-12ers now have

(Continued on Page 4)

## SAFETY SCOREBOARD

Your Plant Has  
Operated  
215 DAYS  
Without A Lost Time  
Accident  
THROUGH JAN. 22



# Y-12 Bulletin

Published Weekly By  
CARBIDE AND CARBON  
CHEMICALS DIVISION,  
Union Carbide And Carbon  
Corporation

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Oak Ridge Tenn.  
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## Additions To Y-12 Technical Library

### PHYSICS

THE CHARACTERISTICS OF ELECTRICAL DISCHARGES IN MAGNETIC FIELDS. First edition. A. Guthrie and R. K. Wakerling, editors. McGraw, 1949. NNS Div. I; Vol. 5. QC 702; G 984.

ULTRASONICS. First edition. Benson Carlin. McGraw, 1949. QC 234; C 282.

### CHEMISTRY

COLLOID SCIENCE. Volumes 1 and 2. Albert E. Alexander and Paley Johnson. Oxford, Clarendon Press, 1949.

COLORIMETRIC METHODS OF ANALYSIS. Third edition. F. D. Snell and C. T. Snell. Van Nostrand, 1949. QD 75; S 671; Vol. 2.

ORGANIC REACTIONS. Vol. 5. Roger Adams, editor-in-chief. Wiley, 1949. QD 258; O 68.

### MINERALOGY

THE MICROSCOPIC CHARACTERS OF ARTIFICIAL INORGANIC SUBSTANCES OR ARTIFICIAL MINERALS. Second edition. Alexander N. Winchell. Wiley, 1931. QE 367; W 759.

OPTICAL MINERALOGY. Second edition. A. F. Rogers and P. F. Kerr. McGraw, 1942. QE 367; R724.

### METALLURGY

ASM REVIEW OF METAL LITERATURE. Vol 5—1948. American Society for Metals. Cleveland, Ohio. The Society, 1949. TN 673; A 512. Reference.

GRAIN CONTROL IN INDUSTRIAL METALLURGY. J. E. Burke and others. American Society for Metals. Cleveland, Ohio, The Society, 1949. TN 690; A 512.

TITANIUM. Jels Barksdale. N. Y., Ronald Press Co., 1949. TN 799.T5; B 256.

TREATISE ON POWDER METALLURGY. Claus G. Goetzl. Interscience, 1949. TN 695; G 611; Vol. 1.

### TECHNOLOGY

ELECTRONICS MANUAL FOR RADIO ENGINEERS. Electronics. Vin Zeluff and John Markus, associate editors of Electronics. McGraw, 1949. TK 7815; E 51.

HANDBOOK 42, SAFE HANDLING OF RADIOACTIVE ISOTOPES. U. S. Dept. of Commerce. National Bureau of Standards. U. S. GPO 1949. Pamphlet.

THE RADIO AMATEUR'S HANDBOOK. Ninth Edition. A. Fred Colling, revised by D. J. Duffin. N. Y., Thomas Y. Crowell Co., 1949. TK 9956; R 129R. Reference.

STRENGTH OF MATERIALS. First edition. J. P. Den Hartog. McGraw, 1949. TA 405; D 393.

STRUCTURE AND PROPERTIES OF ALLOYS. Second edition. R. M. Brick and A. Phillips. McGraw, 1949. TA 490; B 849.

WATER SUPPLY ENGINEERING. Fourth edition. H. E. Babbitt and J. J. Doland. McGraw, 1949. TD 245; B 112.

### BUSINESS

EDUCATION FOR LIBRARIANSHIP. Edited by B. Berelson. Chicago, University Graduate Library School. Library Conference. Chicago, ALA, 1949. Z 668; C 532.

MAKING CONFERENCE PROGRAMS WORK. First edition. M. F. Stigers. McGraw, 1949. PN 4193; S 995.

### A-BOMB JUST PUNY

Cosmic rays thousands of times more powerful than atomic bomb atoms have been shown to the National Academy of Sciences at Rochester, N. Y., it is reported by the Christian Science Monitor. The rays were trapped on a new kind of photographic film sent up in balloons 20 miles above the earth in Minnesota and Cuba.

## Giant Turnip Grown By Y-12er Gets Attention—Trick Features



**6-1101** Y-12 Photos By Vince Moore

"IT'S FUNNY BUT IT'S TRUE" MIGHT BE A GOOD CAPTION for this conglomeration of photography involving the use of a mammoth five-pound turnip, some plastic clay and shenanigans by the Y-12 Photographic Section to produce the weird-looking object shown in the top picture. A couple of the principals in the act are shown below with Lloyd Cardwell, of the Maintenance Shops Department who grew the turnip at left, and John Rohland, of Manufacturing Offices, who produced the attached face in modeling clay. The finished product—in the upper picture—has been christened "Mister T" and is the pride of all concerned.

There are a lot of Y-12ers who like to dabble and dig in the good earth—with results varying from zero to a high degree of productivity in garden and field crops. Quite a few of them have received notice in The Y-12 Bulletin over their accomplishments—such as 12-foot tall tomato plants, a record number of variety of garden vegetables on certain size plots of land, freak-shaped egg-plants and other items.

Now comes Lloyd Cardwell, of the Maintenance Shops Department, proudly bringing in as his exhibit of the period a turnip weighing more than five pounds—which is a turnip of considerable size as any amateur or professional agriculturist will admit. In fact, in comparison with an ordinary turnip it would rate as the Empire State Building against the North Portal office of The Y-12 Bulletin and Recreation Office.

After the fellow employees of Cardwell had properly admired the giant turnip some folks decided to see what they could do toward improving on the work of nature. John Rohland, of Manufacturing Offices, took the turnip and with the use of some modeling clay proceeded to attach a face on the turnip where there had been no face before. He first molded the face in soft clay, then baked it so that the surface greatly resembled the surface of the turnip. The startling result is pictured herewith.

### Grown On Own Farm

Cardwell grew the turnip on his farm of about 90 acres located 12 miles west of Knoxville on the Kingston Pike. This rich land fre-

quently has produced oversized vegetables, including some sweet potatoes ranging from seven to nine pounds in weight. Cardwell is meticulous about cultivating his land, using modern and approved methods. In producing his large vegetables, he used chicken fertilizer. The entire output of the farm crops are used for the Cardwell family. Mrs. Cardwell canning a large amount of the vegetables. Most of the farm, however, is used for pasturage for some beef cattle and hogs.

### WASTE PLACED IN OCEAN

The New York News reports that Britain is building a pipe line under the Atlantic Ocean to dispose of radioactive waste from the new research station at Sellafield, depending on ocean currents to dilute and spread the waste liquids.

## STRICTLY Confidential

What was that big yaller ball rising out of the eastern sky last Friday? Oh, the Lucky Old Sun—he didn't have to stick around for all those damp days. Then came the week end and Mr. L.O.S. seems to have gone on another vacation.

The Chemical Research Department is harboring a pair of proud papas these days . . . They are W. F. Arendale, who welcomed twins January 14 at the Baptist Hospital in Knoxville; and G. H. Clewitt, who saw his baby son, the Clewitt's first, at the Oak Ridge Hospital the same day. The Arendale twin girls have been named Nancy Jane and Betty Jean while the Clewitt youngster, weighing seven pounds and one-half ounce, will be called John Robert.

Emmett Moore, formerly of the Y-12 Fire Department and one of Y-12's better athletes, particularly in baseball and softball, postal cards from Marion, Va., to send regards to all the foks. There's no charge, Emmett.

Lillian Hamlet, of the Laundry, has as recent week-end guests Mr. and Mrs. James Hamlet, from Cumberland Gap, Tenn.

The Maintenance Utilities Department sends get well wishes to J. E. Humphries.

That hard-working chap with the furrowed brow who was shaking a pencil and chewing a fountain pen down in the Y-12 Dispensary last week was Medical Director Dr. Paul D. Scofield, who had just returned from a meeting of Carbide medical directors at South Charleston, W. Va. He was drafting a report of the meeting . . . Penny Keene and her husband, Oliver Keene, of the Property Department spent a recent week end in Atlanta with her sister.

Ruth Law and Desma Hutcheson, of the Plant Records Office, spent the past week end visiting Katherine Jenkins Hoskins, until recently a Y-12er in the same department, at the Hoskins home in Clinton.

Several folks in the Stores Department were ailing last week and the department sent wishes for quick recoveries to M. E. Puckett, J. D. Hayes and J. R. Bailis . . . J. L. Francis was vacationing last but did not reveal his whereabouts.

Lucille Townsend, of the Product Chemical Department, gave a stork shower last Friday night at her home, 201 Waddell Circle, for Opal Blackwell. Guests included Elizabeth Harris, Garnette Adams, June Wilkerson, Nina Lowry, Wilma West, Frances Ford, Millie Tison, Doris Holliday, Naomi Wainscott and Ann McWilliams.

Maybe it is fair enough that Chef Jess Durrett, of the Y-12 Cafeteria, doesn't have to go out and rustle victuals for his customers. He and Mrs. Durrett and J. J. Goodman and Mrs. Goodman went fishing on the January 14 week end on Ft. Loudoun Lake and everybody had good luck—except, of course, Chef Jess. He didn't even get a nibble.

The Guard Department extends wishes for a quick recovery from illness to Chief Miles Bradford and Elmer Brewer.

Hallie Leicht, of Uranium Control and Computing, and her husband are sporting a brand new Pontiac convertible . . . Bill Belvin spent the past week end in Chattanooga . . . Kay Guthrie and Ruth Buttles, the winter outdoors girls who just keep hoping it will snow sometime soon in the Smokies (Brrrrr the mean things) week-ended it in the mountains with the Smoky Mountain Ski Club. The Y-12ers said they intended to have a swell outing—snow or no snow.

### RADIOACTIVE ORE FOUND

Recent press reports declare that Dr. Frank Tiffany, radiation expert and former atomic scientist at Albuquerque, N. M., has announced discovery of radioactive ore of unknown quantities in the heart of the Mother Lode region of California.

## Vivian McKenzie Is Voted D. A. R. School Award



Miss Vivian McKenzie

Miss Vivian McKenzie, 17-year-old daughter of T. A. McKenzie, Superintendent of Plant Protection in Y-12, and one of the outstanding students in the Oak Ridge High School has been voted the Daughters of the American Revolution Good Citizenship award by classmates in the high school for the scholastic year. She is in the senior class.

The Tennessee Chapter of the National Society of the D.A.R. sponsors the Good Citizenship award contest annually in the high schools of the state and urges every such institution in the state to have its senior class select a girl student for the honor. Similar contests are held throughout the United States.

### Qualifications Of Leadership

The selection of a senior girl for the Good Citizenship award is based on four qualifications. They are:

Dependability—which includes truthfulness, loyalty and punctuality.

Service—cooperation, courtesy and consideration of others.

Leadership—personality, originality and ability to assume responsibility.

Patriotism—unselfish interest in family, school, community and nation.

A handsome D.A.R. pin and certificate will be given the winner from each school selecting a girl for the award.

### Will Meet Other Winners

In addition, the winner will receive a trip to Nashville to meet winners from other schools in the state. While in the capitol city the award winners will be feted and taken on a tour of historical points of interest and visit with Gov. Gordon Browning.

From the senior girls attending the Nashville function a winner of the state Good Citizenship award will be drawn by lot. The winner will be termed the State Pilgrim and will receive a United States Government bond with a maturity value of \$100 in addition to the pin, certificate and trip to Nashville.

### Listed High In Class

Miss McKenzie has been a leader in student activities since entering Oak Ridge High School. She is in the upper five per cent of her class, is chairman of the activities committee of the Student Council. This committee helps organize classes and clubs at the beginning of each year and assists students in selecting the most fitting school activities for the year. She also is a member of the National Honor Society and an officer of the Spanish Club of the high school. She also has been active in the work of the United Church Fellowship.

### PROTECTIVE FABRIC SEEN

The New York Times has reported the development of a gown of lead-glass fabric designed to protect wearers against X-Rays and beta rays of atomic fission products. The fabric was reported developed by the department of roentgenology of the University of Virginia under direction of Dr. Vincent W. Archer.



# ALL-CARBIDE BOWLING MEET IS SET

## Varsity Cagers Warrant Support In Coming Tilts

Basketball fans of Y-12 are urged to turn out for the important games scheduled by the varsity cagers Thursday and Friday nights of this week, and again on next Monday and Tuesday nights. Support given by the rooters mean a lot to the players who are displaying a capable brand of basketball in their efforts to fittingly represent the plant in the Oak Ridge City League play.

**Play Thursday And Friday**  
Both the Cardinals and Robins will appear on the Thursday and Friday night cards, the first being scheduled for the Jefferson Junior High School and the Friday night contests at the Oak Ridge High School.

On Thursday night the Robins will seek revenge over the Fillies of the Oak Ridge National Laboratory in the 8 o'clock game. At 9:15

### JOHNSON CITY CAGERS MEET Y-12ERS SATURDAY

Home fans will get their first chance to see the Y-12 basketballers in action against outside competition Saturday night when the strong Johnson City men and women cagers come to Oak Ridge to do battle with the Red and White. The double-header will be staged at the new gymnasium of the Jefferson Junior High School, starting at 7:30 o'clock, and admission is free. The Johnson City lassies defeated the Robins in a close game there earlier in the season so the Y-12ers will be looking for revenge. The men's teams have not met this season.

o'clock the Cardinals will take the court against the Fairchild quintet. The Friday night schedule pits both Y-12 teams against the men and women cagers from Clinton at 6:45 and 8 o'clock.

Both Y-12 teams are again scheduled to appear next Monday night at Jefferson with their old rivals, the K-25 basketballers, as their foes. Then on next Tuesday night the Y-12 women will again seek to gain their main objective of the season—to knock over the league-leading Roane-Anderson sextet in the 8 o'clock game at Jefferson.

### Robins Not Up To Par

The Y-12 Robins were not quite up to par last Wednesday night as they dropped a 30 to 26 decision to the ORNL Fillies. After a five-all tie in the first period the ORNL team gradually drew away although the Robins outscored their opponents in the final quarter by two points. Gladys Carpenter led the Robins with 11 points and Peggy Dickens got six. Frankie Rose, former Y-12er, alone and single-

## Men Varsity Bowlers Trim K-25 Keglers For Revenge

The Y-12 varsity bowling team in the mens' Oak Ridge City League continued their winning ways January 16 when they trounced their old rivals from K-25 for three points out of four. The victory was especially sweet for the Y-12ers as they previously had been defeated by the Gas House boys.

The K-25 keggers took the first game by 917 to 831, but the Y-12ers came back strong and won by 900 to 875 and 913 to 823 as the losers faded. The total scores were 2,644 for Y-12 and 2,615 for K-25.

The Y-12ers were closely bunched in their scoring, all posting better than 500 pins. Nelson Tibbatts topped the bunch with 165, 182, 183—530; followed by Rudy Platz 194, 162, 176—532; Frank Gragg 165, 182, 183—530; Ernie Cobble 168, 169, 180—517; and Conrad Roberts 166, 174, 173—513.



6-10 99  
Y-12 Photos By Vince Moore  
ABOVE IS SHOWN THE MATERIALIZERS OF THE D LEAGUE of plant bowlers just after they drove into a first-place tie with the Splinters in last week's play. From left are Frank Knox, Bob Kelley, Fred Boody, Carl Frazier and Jim Keeton.

## Orphans Drive To Tie Hooks In C League

The Orphans drove up to a tie with the Hooks in the C League of plant keggers last Wednesday night on the Central Bowling Alleys hardwood by knocking over the Guards for three points while the Hooks could get only an even break against the Hurricanes. In making their jump, the Orphans took high team scoring honors in three of four brackets and two of the team members got high scores for the night.

### Guards Drop To Third

The Guards, who had previously shared first place honors with the Hooks, dropped back to third place. The Thin Pins, who stung the Hornets for three points, found themselves tied with the Hurricanes after the night's session. The Hornets dropped back to a tie with the Moles, who bounced up from last place by short circuiting the Short Circuits for four points.

George Riddle and Elmore Koons, of the Orphans, turned in the best scratch scores of the night. Riddle got a 189 single game and Koons a 486 series. Ray Duckworth, of the Hornets, posted a 228 handicap single game for tops in that category while John Schmitt, rolling for the Moles, had an even 600 handicap series.

### Top Teams Take Honors

The two top teams monopolized group scoring titles for the night. The Orphans posted a 789 scratch single game, 2,222 scratch series and 975 handicap single game.

### League standing follows:

Team	W	L	Team	W	L
Hooks	8	4	Thin Pins	6	6
Orphans	8	4	Hornets	5	7
Guards	7	5	Moles	5	7
Hurricanes	6	6	Short Circuits	3	9

handed brought victory to her team by scoring 23 points.

However, the Cardinals came through with a stirring 41 to 38 victory over the Southern Bell quintet last Friday night to uphold the red and white standard. This one was close from start to finish.

### Divide At Morristown

The Cards and Robins split a pair of games over at Morristown last Saturday night. The men lost an overtime heart-breaker to the home club by a score of 43 to 41. The tally at the end of regulation play was 37 to 37. On the other hand the Y-12 lassies had a comparatively easy time in racking up a 36 to 25 win. The Morristown teams will play a return engagement in Oak Ridge shortly.

League standing in the Oak Ridge loop through last Friday follows:

MEN'S DIVISION					
Team	W	L	Team	W	L
Trico	12	1	ORNL	4	8
K-25	8	2	Clinton	3	8
Fairchild	6	6	Southern Bell	3	8
Y-12	6	8			
WOMEN'S DIVISION					
Team	W	L	Team	W	L
R-A	10	0	K-25	2	9
ORNL	7	3	Clinton	0	8
Y-12	5	4			

Some folks are like static—Only good for interference.

It's a funny thing about being in love; the moment a man begins to get serious he begins to get foolish.

## SPORTS NEWS

## Women Bowlers Continue To Set New High Marks

Those feminine bowlers in the W League continued to set new second round high records in their assaults on the pins last Wednesday night at the Jefferson alleys. Oradean Upchurch, of the Controllers, set a new scratch series figure of 452 and her teammates swept all team honors, setting period records in three classifications.

The league race remained tight, although the four-way deadlock for first place existing the previous week was broken and only two teams shared top spot in the loop after the bowling last week. However, three teams were tied for the next rung on the ladder and two more right below them. Only one team, the Spinners, appeared to be outdistanced at this time.

The Controllers and Woes both won two-point victories last week to take half-shares in the first place occupancy. The Controllers beat the Pick Ups and the Woes trimmed the Hi Balls. In other matches the Kemps took a pair from the Spinners and the Rattlers nipped the Dodgers for two.

### Upchurch Has Good Scores

In addition to her high scratch series score, Oradean Upchurch rolled a 166 single scratch game and 602 handicap series, both tops for the night. Walker, of the Rattlers, posted the best handicap single game of 222.

The Controllers has the best second round scores with a scratch single game of 740, scratch series of 2,050 and handicap series of 2,794. Their 988 handicap single game was high for the night.

### League standing follows:

Team	W	L	Team	W	L
Controllers	6	3	Kemps	5	4
Woes	6	3	Hi Balls	4	5
Pick Ups	5	4	Rattlers	4	5
Dodgers	5	4	Spinners	1	8

## Controllers Defeat Kemps In W League Roll Off Tilts

The Controllers took two out of three games from the Kemps to capture first half honors of the W League of plant women bowlers in a roll-off held Sunday at the Oak Terrace. The teams had finished the first half all tied up.

The Kemps won the first game by 985 to 955 but the Controllers then took control and rolled 991 to 851 and 900 to 873 victories. The total scores were 2,766 to 2,709. Katie Williams rolled the top single game of the match with 174 for the Controllers and her teammate Betty Sherman came through with the best series of 443.

## More Sport News On Page Four

## More Than 1,250 Keglers Expected To Roll In Tourney; 99 Trophies, Cash Prizes Listed For Winners

One of the most interesting and biggest sports events in Oak Ridge history will be presented February 25-26 and March 4-5 when a Carbide Company-wide bowling tournament will be staged between teams and individuals from all three Carbide units in the Atomic City. A total of 99 handsome trophies and cash prizes will be presented to men and women winners in the tournament, which is expected to draw more than 1,250 bowlers to the Oak Terrace and Jefferson alleys to participate in the varied events.

All Carbide men and women employees in Oak Ridge who have an established handicap based on a minimum of 15 games in any Oak Ridge sanctioned league during the present bowling season are eligible to participate in the tournament. Wives of employees bowling in a Carbide

## Two Teams Deadlocked In D Loop Third Round

The third and final round of play in the D League got underway January 17 with the Splinters and Materializers tied for first place, each turning in four-point wins to get a running start in the last period of play. The Splinters took the Overheads into camp and the Materializers blasted the Isotopes.

The Termites and Strikers, each with three wins and a loss, are next in line. The Termites won the second round of play and the Strikers were victorious in the first round. In their third round opening matches the Strikers took three from the Angstroms and the Termites got a similar victory over the Old Men.

### Splinters Have Top Game

In beating the Overheads, the Splinters bowled one handicap single game of 1,005 for tops of the night and the team was greatly aided by Red Wiest's 228 handicap single game and 629 handicap series, also tops for the session. Leo Caldwell had a 471 scratch series and consistent scoring by Ratjen, Reece and Morgan contributed to the victory. Elmore Koons had the night's best scratch series of 517 for the Overheads, but it failed to stave off the defeat.

The Materializers were aided by steady bowling by Boody, Hagelston and Knox while Paul Wilkinson and Paul Dunn had the best night's scores for the Isotopes, the latter having a 200 handicap game.

### Dews And Savage In Tie

The Termites, who blasted out a four-point victory over the Strikers to win the second round title, kept going strong. Richard Dews and Wes Savage each had 190 scratch single games for best of the night while the team came through with the highest scratch scores of 806 and 2,289. George Nettle, Bill Davis and Lyle Overholser helped the Old Men get their single point, Nettle getting a 225 handicap game.

The Strikers rolled strongly to take three points from the Angstroms and were led by George Stukenbroeker, Bill Burns and Fred Kappelman. A 221 handicap game by N. V. Smith and good support by Lewis Twitchell and Paul Griffin brought one point to the Angstroms.

### League standing follows:

Team	W	L	Team	W	L
Splinters	4	0	Angstroms	1	3
Materializers	4	0	Old Men	1	3
Strikers	3	1	Isotopes	0	4
Termites	3	1	Overheads	0	4

## Radiation Sickness Cure Base Reported

Recent newspaper reports reveal that five University of Rochester scientists, headed by Dr. Joe W. Howland, former Atomic Energy Commission medical research chief, declared that experiments involving use of aureomycin have led to the most promising means yet found for treating atomic bomb radiation sickness and possible cancer and other related diseases. The scientists have reported that the experiments may lead to new safeguards for research workers handling fissionable materials.

sanctioned league may participate in the tournament on the same handicap basis of 15 games.

This means that any established team in plant leagues in the three Carbide units in Oak Ridge may enter, or that new teams may be formed for the tournament with players who are eligible under the rules. This will permit players now listed as extras on some teams to possibly form groups of their own to participate in the tournament.

### All Y-12ers Urged To Enter

All bowlers, men and women, in Y-12 is urged to enter the tournament and pit their skill against that of keggers at K-25 or the Oak Ridge National Laboratory. Some excellent scores have been posted by Y-12ers this season and all entrants from this plant should give a good account of themselves in the Company-wide session. Complete information may be obtained at the Y-12 Recreation Office, North Portal, telephone 7-8252, where entries may be filed for the tournament.

The tournament competition will include team play for both men and women and singles and doubles. The cost to the individual bowlers will be 90c for bowling in each event plus 30c for the prize money pot. All prize money will be returned to winning participants in the tournament.

### February 13 Is Deadline

Deadline for entering the tournament and payment of entrance fees for all events entered is February 13, 1950.

A total of 57 trophies will be presented to winners in the men's events and 42 to victorious women. The trophies for both men and women will be similar and the team trophies also will be alike except for figures and engraving. Doubles and singles prizes will be similar for each corresponding place finished and the all-events trophies will be the largest in the lot.

### Events And Prizes Listed

Here are the details of events and prize distribution for the men's events:

Team series, with handicap, first, second and third, five awards to each team, total of 15 trophies.

Team series, scratch, same prizes as handicap series.

Doubles, with handicap, three places, two awards to each team, six trophies.

Doubles, scratch, same prizes as handicap series.

(Continued On Page 4)

## Women's Varsity Bowling Team Trounces Keglerettes Of K-25

The Y-12 women's varsity bowling team snapped out of a losing streak last Thursday night at the Oak Terrace alleys to rise up and smite the third-place K-25 lassies for two out of three games in an Oak Ridge City League match. The triumphant Y-12ers copped the opener by the close score of 614 to 610, rolled up a 662 to 627 margin in the second game but lost the final by 675 to 637. In total pins Y-12 edged out a one-point margin of 1,913 to 1,912.

Margaret O'Neal topped the Y-12 keglerettes with 178, 145, 136—459; followed by Ruth Law 137, 135, 125—397; Katie Williams 103, 142, 132—377; Olyne Poindexter 107, 138, 107—352; and Daisy Ward 89, 102, 137—328.



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## Winter Driving Hints May Prevent Accidents

In addition to being vitally interested in your safety in the plant, the Y-12 Safety Department knows how important safety off the job is to every employee, their families and to the Company. The Safety Department recommends some more tips on winter driving in anticipation of some of the bad weather that may be in store.

"If your car can't start, it's a misfortune," says the Safety Department, "but if you can't stop, it's a calamity."

The following are good rules to observe for safety in driving under adverse weather and road conditions.

1. Adjust speed to conditions.
2. Slow down well in advance of curves and intersections.
3. Follow other vehicles at safe distances.
4. Put on tire chains when roads are slippery with snow or ice. They provide "go" traction and reduce braking distances 50 per cent.
5. Make sure windshield wipers and defrosters really work.
6. Signal intentions of turning or stopping.
7. Apply brakes lightly and intermittently on icy roads.
8. Remember that braking distances on snow and ice without anti-skid chains are from four to 11 times greater than on dry pavement and that wet ice at near thawing temperatures is twice as slippery as dry ice near zero.
9. When vehicle is equipped with overdrive, be sure to "look out" when traveling on slippery or mountainous roads.

In discussing the qualifications of an analytical chemist, the speaker briefly touched on the responsibility of industry in training such chemists beyond the college level.

Summing up, Susano pointed out that the professional status of the analytical chemist will be improved as their achievements become known to the general public and when they are accepted as being necessary to the public welfare.

## Defense Training Program Set Here

A five-week course for especially picked civilians in handling of instruments for spotting presence of atomic bomb radiation will be opened in Oak Ridge April 3, it has been announced by the Atomic Energy Commission. Similar courses will be held at the Brookhaven National Laboratory and the University of California at Los Angeles March 13.

The training program is a part of the program for wartime disaster relief planning and of a broad civil defense planning program. State governors will be asked by the AEC to nominate qualified educators and technicians for the courses.



The following Y-12 families became parents of babies born recently at the Oak Ridge Hospital: Mr. and Mrs. Glenford H. Clewett, boy, January 14; Mr. and Mrs. Ronald E. Austin, girl, January 17.



Among the patients in the Oak Ridge Hospital last week were the following Y-12 employees: Emily L. Leyshon, Isotope Research and Production; Raymond Ledford, Guard Department; Henry E. Everman and George S. Ferrell, Maintenance Shops; Mary S. Banic, Analytical Laboratory; James D. Hayes, Stores; M. Carl Becker, Plant Engineering; Frances M. Skeen, Assay Laboratory; James S. Tilley, Steam Plant; and Daisy Whitehead, Medical.

## B League Returns Incomplete; Bumpers And Comets Still Tied

Only incomplete returns were available on the B League bowling results last week as one team, the Mules, were unable to fill the usual Thursday night engagement. They were scheduled to have rolled over the week end but scores were not available Monday morning.

However, the Bumpers and Comets remained tied for the league lead with 23 points on the credit side of the ledger against nine debits. The Bumpers defeated the Rippers for three and the Comets took a similar decision from the Head Pins last Thursday. Maintenance won four from the Bums and the All Stars whitewashed the Cubs. The Wolves got three points from the Tigers. The One-91 team, scheduled to have met the Mules, rolled for record and their scores will be matched with that of the Mules when the latter team reports.

The correct league standing will be published next week.

## Varied Program Is Planned For Ridge Listening Group

A varied program will be presented at the weekly concert of the Oak Ridge Music Listening Group at 8 o'clock Thursday night, January 26, in the East Lounge of the Ridge Recreation Hall. Miss Estelle Hays, former Y-12er, will be in charge of the program.

The program will open with the "Pagan Poem," by Loeffler, which will be followed by the Delius "Vinden Concerto."

After intermission, during which refreshments will be served, the audience will hear the "Requiem" by Faure, and the Scarlatti Piano Sonatas. The "Requiem" is of particular interest, as it will be presented April 1 by the Oak Ridge Community Chorus.

## Legion Endorses Defense Program

The Indianapolis Star reported recently that the National Executive Committee of the American Legion has endorsed a campaign for adoption of a civil defense program as Congress has reconvened. The Legion committee warned that a sudden atomic attack on the United States could create chaos in cities and urged that a defense plan immediately be drafted.

When crossing streets—Stop Look, and Step Lively.

## Dept. 2077 Continues 'All Present' Record

(Continued From Page 1)

The absentee mark for the entire plant showed a substantial drop of .4 per cent for the week ending January 15, being listed as 2.1 per cent. The record, by departments, follows:

MAJOR LEAGUE			
Dept.	Percentage Absent	1-15-50	1-8-50
2077	0.0	1	1
2619	0.6	2	1
2015	0.7	3	5
2003	1.1	4	4
2091	1.6	5	10
2616	1.68	6	6
2360	1.68	6	2
2320	2.1	7	9
2282	2.4	8	8
2014	2.8	9	7
2283	2.9	10	11
2300	3.2	11	3
2142	4.7	12	12

Group absentee percentage was 1.8 per cent, .7 per cent lower than the preceding week.

MINOR LEAGUE			
Dept.	Percentage Absent	1-15-50	1-8-50
2109	0.0	1	1
2143	0.0	1	1
2140	0.0	1	1
2107	0.0	1	2
2008	0.7	2	1
2602	1.1	3	9
2200	1.2	4	8
2739	1.4	5	5
2005	2.0	6	1
2743	2.5	7	1
2001	3.5	8	6
2270	4.2	9	3
2050	5.6	10	7
2609	6.66	11	11
2096	6.66	11	13
2090	8.0	12	12
2133	12.2	13	10
2093	—	—	4

Group absentee percentage was 3.2 per cent, .6 per cent higher than the preceding week.

The plant average for the week ending January 15 was 2.1 per cent, .4 per cent lower than the preceding week.

## Candidates Now Being Sought To Fire On Y-12 Rifle Team

A city-wide rifle league is the latest sports organization to make its appearance in Oak Ridge. The league now has teams entered from all three Carbide units in the area and other groups also are expected to enter.

All Y-12 sharpshooters are urged to communicate with the Y-12 Recreation Office, North Portal, telephone 7-8252, so that the plant team of 10 men can be organized for league play. Prompt action is urged as league play is expected to begin about February 26. A meeting of candidates for the Y-12 rifle team will be held at 3 o'clock Thursday afternoon at the Recreation Office.

Weekly matches will be held on the range of the Oak Ridge Sportsmen's Association. Members of league teams need not be members of the association to compete in the shooting and rifles and ammunition will be provided.

## Speckled Birds Hold Second In Ridge Recreation League

By virtue of a close 32 to 31 victory over the Blue Jays, the Speckled Birds held second place in the Recreation League in games played through last Friday. Both are Y-12 teams. In games earlier in the week the Birds trounced AEC by 33 to 27 and the Jays topped the ORNL Instruments 29 to 28.

The Blue Jays are scheduled to meet the ORNL Chemists at 7 o'clock tonight and the Birds play league-leading Barber Buick at 9 o'clock. Games Friday night will pit the Birds against the Instruments at 7 o'clock and the Jays against Barber at 8 o'clock. The first half schedule will be concluded Wednesday, February 1, when the Birds will play the Chemists and the Jays tackle AEC.

League standing through last Friday follows:

Team	W	L	Team	W	L
Barber Buick	7	0	AEC	3	4
Speckled Birds	5	2	Instruments	2	5
Blue Jays	3	4	Chemists	1	5

The deepest tenderness a woman can show to a man is to help him to do his duty.

"Always speak truth, but do not always tell it."



## Y-12 Fathers Build Midget Automobiles

(Continued From Page 1)

by a one and one-half horse power Briggs gasoline motor that is air cooled. It is equipped with a fluid-drive clutch and has semi-pneumatic tires. The inside width of the seat is 23 1/2 inches and overall length is 70 inches and the automobile has a wheel base of 48 inches.

Dale's car is 23 inches high and has a eight-inch high windshield of plexiglass. The wheels are 10 inches in diameter and the tires measure two and one-half inches.

### Schaefer Machine Is Electric

On the other hand the Schaefer automobile is electrically-driven with a used automobile starter motor providing the power. Current is provided by a storage battery that is recharged by an electric battery charger attached to a regular home circuit. The battery will provide power for the vehicle for about two hours before recharging. The inside width is 20 inches, overall length 54 inches and height is 23 inches. The wheels are 10 inches in diameter and tires are two and one-half inches.

Schaefer has been working on the car for his boy about two years, while Allstun just started last summer. Both vehicles were completed fairly recently—to the utter delight of the youngsters who naturally became somewhat impatient before they were allowed to step in the little cars and "give 'em the gun."

### Two Builders Collaborated

Allstun and Schaefer collaborated considerably in building the tiny automobiles. For instance they purchased a motor scooter together and dismantled it with the motor being installed in the Allstun project and the wheels going to Schaefer, who had to buy two more wheels to complete his car. Meanwhile Allstun bought four wheels from another store to mount on Dale's machine. Body work on both little cars is made of plywood and metal picked up here and there.

Although the fathers worked rather closely together in their projects, the first time the two youngsters got together with their automobiles was a few days ago to have their pictures made for The Y-12 Bulletin.

### Safe Operation Is Stressed

Both dads are emphatic in "laying down the law" to the youngsters about driving their vehicles away from the immediate vicinity of their homes. Although both little cars have a top speed of about 20 miles per hour, the youthful drivers are cautioned about speeding and firmly instructed in careful driving, rules of the road and other safety measures that will prevent accidents of any kind.

Allstun and Schaefer both assembled the little cars at their homes, 113 Walton Lane and 119 West Holston Lane, respectively, and by their efforts have made a couple of young fellows very happy and the envy of their neighborhood playmates.

One should never trust a woman who tells her real age. A woman who would tell that would tell anything.

## Income Tax Assistance Available For Y-12ers

(Continued From Page 1)

received these W-2 forms in duplicate, one to forward to the Collector of Internal Revenue, Nashville, Tenn., with the tax return and the other for the employee's own records.

### Most Taxes Are Withheld

Every person in the United States, adult or minor, with an income of more than \$600 during 1949 must file an income tax return for the year. Most of the income tax is withheld from wages but the law still requires the return to be filed.

In an effort to fit the tax returns to the differing needs of the more than 50,000,000 persons who must file, three types of returns have been provided. They are Form 1040 A, Short-Form 1040 and Long-Form 1040. To determine the proper form to use, the taxpayer must consider the size of income, sources of income, eligibility to deduct reimbursed expenses from wages and the size of non-business deductions such as contributions, medical expenses and other items.

### 10 Per Cent Deductions Allowed

The standard 10 per cent deductions allowed for non-business deductions applying in 1949 still is in effect, if figuring by the actual tax method. Should the non-business deductions amount to more than 10 per cent of the 1949 income, they may be itemized and claimed.

If husband and wife have separate incomes there may be advantages in filing either separate or joint returns, depending on the amount and source of income. All of these questions are answered in the government pamphlet.

Although Hamrick will gladly give assistance in filling out tax returns, it is emphasized that such advice and assistance will be limited to the more simple tax problems and that the Company cannot be responsible for advice on tax matters that might prove controversial. Any Y-12er with tax problems involving technical or legal questions should consult an authority on income tax matters.

## All-Carbide Bowling Tournament Arranged

(Continued From Page 3)

Singles, with handicap, three places three trophies.

Singles, scratch, three places, same prizes as handicap singles.

All events, handicap, four places, four trophies.

All events scratch, three places three trophies.

Bowlers must enter team, doubles and singles play to qualify for all events prizes.

### Women Have Same Events

The same number of events will be offered women bowlers, but not as many places will be counted for trophies. In team play, handicap and scratch, and doubles handicap and scratch, trophies will be offered first and second place winners. However, the top three singles bowlers in the handicap class in the feminine bracket will receive trophies but only two prizes will be presented in the scratch singles event. First, second and third place winners in the all events handicap event will be given prizes but only the first and second place winners in the scratch all events play will receive trophies. The same requirements for participation in all three other events to be eligible for the all events trophies applies to women bowlers as well as men.

One morning Brown looked over his garden wall and said to his neighbor:

"What are you burying in that hole?"

"Oh" the neighbor said, "I'm just replanting some of my garden seeds."

"Seeds," screamed Brown angrily. "It looks more like one of my hens."

"It is and the garden seeds are inside."